CS405 PROJECT 1 REPORT

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Task 1: As the first task, ChatGPT calculated the given matrix prompt after I told it to double-check check couple times and the matrix shape is not representing a cube shape at all.

A screenshot of a computer

Description automatically generated Image 1

ChatGPT’s cube representation after it’s matrix calculations.

A blue and black cube

Description automatically generated Image 2

Task 2: With the help of the pre-given functions in utils.js, I created an accurate cube in space as it can be seen below in Image 4.

A black screen with colorful text

Description automatically generatedImage 3

The cube I got after my own calculations in comparison to the object ChatGPT came up with has huge differences where ChatGPT’s object is wrong due to its miscalculation in Matrix multiplication. Therefore it can be stated that to have a proper object, not relying on ChatGPT’s mathematical ability.

A blue rectangular object with black background

Description automatically generatedImage 4

Task 3: In task 3, I asked ChatGPT to do the animation of this object which is the transformation matrix I calculated in Task 2. ChatGPT was capable of almost successfully making the animation and it required little adjustments for it to work properly on index.html.

Conclusion: The different results I gathered in Task 1 and Task 2 arises from the mathematical capability for matrix operations between ChatGPT and me where I used the pre-given functions that were the right way of calculating the matrix transformation. Even though ChatGPT failed miserably in Task 1, it was mostly successful in the last task, during the animation process which shows how helpful AI could be as an assistant.

ChatGPT links:

https://chatgpt.com/share/671112ab-0f60-800f-87c8-edb93133993c

https://chatgpt.com/share/67111290-b9a4-800f-bdba-a76c9bc97c90